THE SHILOH™
HIGH-EFFICIENCY WOODSTOVE

EPA Certified (4.21 grams/hr)

Model TR002 Owners Manual

(save this manual for future reference)

Tested & Listed By O-T-L US Portland Oregon USA
OMNI-Test Laboratories, Inc.

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS STOVE.
FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.

This stove meets U.S. Test Standard: UL 1482-1996

NOTE: INSTALLATION MUST BE COMPLETED BY A QUALIFIED HEATING EQUIPMENT INSTALLER!

REFER TO MARKINGS ON STOVE LABELS FOR ADDITIONAL INFORMATION.

DO NOT USE THIS STOVE IN A MOBILE HOME, MANUFACTURED HOME, TENT OR TRAILER – *NO EXCEPTIONS!*

SAFETY NOTICE: IF THIS STOVE IS NOT PROPERLY INSTALLED, A HOUSE/BUILDING FIRE MAY RESULT. FOR YOUR SAFETY, CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT PERMITS, RESTRICTIONS, AND INSTALLATION REQUIREMENTS FOR YOUR AREA.

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SAFETY INSTRUCTIONS – READ ALL INSTRUCTIONS CAREFULLY.

1. The installation of this stove must comply with your local building code rulings. Please observe the clearances to combustibles (see reference figures 10–12). Do not place fuel, furniture or any other objects within the clearance area.
2. Verify that the stove is properly assembled and installed before firing the stove for the first time. After reading these instructions, if you have any doubt about your ability to complete your installation properly, you must obtain the services of a professional licensed installer familiar with all aspects of safe and correct installation. DO NOT use temporary or makeshift compromises during installation. There must be **NO DEVIATION OR ALTERATION OF ANY KIND** from the very specific instructions spelled out in this instruction manual as it pertains to the installation of this woodstove. **NO EXCEPTIONS!**
3. DO NOT store wood, kindling, flammable liquids or other combustible materials in the vicinity of the appliance. Refer to certification label on back of unit and reference figures 10–12 in this manual.
4. **DO NOT INSTALL THIS STOVE IN A MOBILE HOME, MANUFACTURED HOME, TRAILER OR TENT NO EXCEPTIONS! (HUD Federal Standard: 24 CFR Ch.XX).**
5. **DO NOT ELEVATE THIS STOVE BY ANY MEANS.** (i.e. bricks under pedestal base, cement blocks) Stove base must set directly upon the solid-surface, non-combustible floor as specified in this stove instruction manual.
6. **DO NOT MODIFY THIS STOVE IN ANY WAY!** Stove must be installed with pedestal stand provided and attached as shown in the instructions. **DO NOT OPERATE WITHOUT ASH DRAWER OR ASH CLEAN OUT COVER IN PLACE** – ***NO EXCEPTIONS***. Assemble only with original parts as supplied and shown in this manual. **DO NOT OPERATE A STOVE THAT IS MISSING ANY PARTS!** If any parts are missing or defective, please notify the dealer or manufacturer immediately. Replace missing, broken or worn parts with factory original or equivalent parts only.
7. **CAUTION: DO NOT ALTER COMBUSTION AIR CONTROL RANGE TO INCREASE FIRING OR FOR ANY REASON.** Altering or tampering with air control beyond normal capacity will create unsafe and hazardous conditions.
8. Always connect this stove to a chimney and vent to the outside. Never vent to a room or inside a building. **DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.**
9. **DO NOT CONNECT A WOOD BURNING STOVE TO AN ALUMINUM TYPE B GAS VENT.** This is not safe. Use approved masonry or an Underwriters Laboratories Listed UL 103 HT (US)/ULC-S629 (CDN) Residential Type and Building Heating Appliance Chimney. Use a 6″/152mm diameter chimney, that is high enough to give a good draft. (See specifics in Chimney Connections instructions).
10. Be sure that your chimney is safely constructed and in good repair. Have the chimney inspected by the fire department or a qualified inspector. Your insurance company should be able to recommend a qualified inspector. Chimney connector pipe must be in good condition. Replace if necessary before using stove.
11. Creosote or soot may build up in the chimney connector and chimney and cause a house/building fire. Inspect the chimney connector and chimney twice monthly during the heating season and clean if necessary. (see Service Hints).
12. In the event of a chimney fire, turn the air controls to closed positions, leave the building and **CALL THE FIRE DEPARTMENT IMMEDIATELY!** Have a clearly understood plan on how to handle a chimney fire by contacting your local fire authority for information on proper procedures in the event of a chimney fire. After the fire is out, the chimney must be cleaned and inspected for any stress or cracks before starting another fire. Check the condition of any combustibles surrounding the chimney.
13. Ashes should not be allowed to accumulate above the top of the lower primary air orifice (LPAO, air vent at front of firebox, just inside of door).
14. **DISPOSAL OF ASHES** Ashes should be placed in a steel container with a tight fitting lid and moved outdoors immediately. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have completely cooled. Other waste shall not be placed in this container.
15. To prevent injury, do not allow anyone to use this stove who is unfamiliar with the correct operation of the stove.
16. Do not operate stove while under the influence of drugs or alcohol.
17. **DO NOT ELEVATE THE FIRE.** Build fire directly on the bottom of the firebox. This stove has not been tested with the use of grates, andirons or other means of elevating the fire and must not be used.
18. The special paints used on your stove may give off some smoke and an odor while they are curing during the first 12 to 15 fires. Additional smoke and odor may be emitted from the light oils used in construction of the fire box. This should disappear after a short period of time and not occur again. Persons with lung conditions or owners of

susceptible domestic pets (such as birds) should take prudent precautions. Open windows and doors as needed to clear smoke and/or odor. Paint discoloration will occur if the stove is over fired.

19. This stove has a painted surface which is durable but it will not stand rough handling or abuse. Use care when installing your stove. After a period of use the firebox walls may become distorted. A slight distortion will not affect stove operation.
20. **CLEAN STOVE FREQUENTLY** as soot, creosote and ash may accumulate. Clean exterior with soap and warm water when stove is not hot. Do not use any acids or scouring soap, as these solvents wear and dull the finish.
21. **ALERT ALL PERSONS TO THE HAZARDS OF HIGH SURFACE TEMPERATURES** while stove is in operation – especially young children. Keep away from a hot stove to avoid burns or clothing ignition.
22. **NEVER LEAVE SMALL CHILDREN UNSUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE STOVE.** If small children will be in the same room as the stove during operation, provide a sturdy barrier to keep them at a safe distance from the stove.
23. Keep stove area clear and free from all combustible materials, gasoline, engine oil, naphtha and other flammable vapors and liquids.
24. **WHILE TENDING THE FIRE ALWAYS WEAR PROTECTIVE CLOTHING**, fire retardant hearth gloves and eye protection, to prevent burns.
25. **NEVER OPERATE THIS STOVE WITHOUT ASH DRAWER, ASH CLEAN OUT OR WITH THE DOOR OPEN** except when re-fueling. Such actions can result in very dangerous operating conditions.
26. **DO NOT OVER FIRE THE STOVE.** Over firing will occur if combustion air is uncontrolled as when feed door is left open during operation. Such actions can result in very dangerous operating conditions. While in operation, keep the feed door closed and secured at all times except while tending the fire
27. When adding fuel be careful not to smother the fire. Do not build fires against glass and do not load fuel to a height or in such a manner that it creates a hazard when opening the door.
28. **NEVER LEAVE THE STOVE UNATTENDED** with door open. Always close the door after ignition.
29. **DO NOT CONNECT TO OR USE IN CONJUNCTION WITH ANY AIR DISTRIBUTION DUCT WORK UNLESS SPECIFICALLY APPROVED FOR SUCH INSTALLATIONS.**
30. **A WOOD-BURNING STOVE MUST NEVER BE INSTALLED IN A HALLWAY OR NEAR A STAIRCASE**, as it may block egress in the event of a fire.
31. **DO NOT INSTALL IN A SLEEPING ROOM.**
    DO NOT INSTALL IN AN ALCOVE OR INSIDE A FIREPLACE.
32. Install at least one smoke detector on each floor of your home. Detectors should be located away from the heating appliance to avoid false alarms. Detectors should be located close to sleeping areas. Follow the smoke detectors manufacturer's placement and installation instructions. Maintain smoke detector per manufacturer's instructions.
33. **CARBON MONOXIDE (CO) HAZARD.** A buildup of CO fumes is toxic and can be fatal. Carbon Monoxide is a colorless, odorless gas produced during combustion of wood, coal, oil, gas and by other fuel burning appliances. It is important to have a proper draft and adequate replacement air ventilation so fumes are drawn out the chimney. Installed as instructed this stove is designed to be as safe as possible yet it is recommended to **install a CO detector**. Follow the manufacturer's recommendations for proper installation and use. It is recommended to be placed at table-top level (not near the ceiling) to avoid false alarms. Realize that devices other than a stove (i.e. motor exhaust) can trigger CO alarms.

    If alarm sounds:
    - Recognize the symptoms of CO poisoning (headaches, nausea & drowsiness).
    - Increase ventilation (open windows & doors).
    - Make sure stove doors and/or lids are closed and secured.
    - Check stove for smoking or puffing (open airflow controls).
    - Check chimney & connector pipe for leaks, blockage or down-draft conditions.
    - Check CO device for false alarm.
34. All power cords and electrical appliances and/or assemblies must be kept outside of the clearance area shown in this manual for combustible materials.
35. Consult your municipal building department or fire officials about restrictions, permits and installation requirements for your area.
36. For further information on using your stove safely, obtain a copy of the National Fire Protection Association (NFPA) publication, "Using Coal and Wood Stoves Safely" NFPA No. HS-10-1978. Write NFPA, Batterymarch Park, Quincy, MA 02269.

TABLE OF CONTENTS

SAFETY PRECAUTIONS ..... 2 – 3

TOOLS AND MATERIALS REQUIRED FOR INSTALLATION 5

ASSEMBLY INSTRUCTIONS 5

LOCATING THE STOVE 7

- Minimum Clearances ..... 7 – 8

INSTALLATION 9

CONNECTOR PIPE INSTALLATION 9

FIREBRICK ASSEMBLY 9

CHIMNEY CONNECTIONS ..... 10 –12

OPERATING INSTRUCTIONS

- House Fire Hazards, Operating Precautions, Warnings 13
- Wood Types/Sizes 13
- Optimal Fuel Consumption 13
- Starting a Fire, Adding Fuel 14

SERVICE HINTS

- Creosote Formation, Prevention, Removal 15
- Chimney Draft 16
- Glass Care & Replacement, Glass Gasket Replacement 16
- Glass Gasket Replacement 17

PARTS – SHILOH™ 18

PARTS – GLASS DOOR (Glass Replacement) 19

OPTIONAL F-6 BLOWER WIRING DIAGRAM 19

FLOOR PROTECTOR CALCULATIONS 19

CHIMNEY CONNECTION SYSTEMS & CLEARANCES 20

CHIMNEY & STOVE MAINTENANCE LOG 21

NOTE: A PROFESSIONAL, LICENSED HEATING AND COOLING CONTRACTOR MUST BE CONSULTED IF YOU HAVE QUESTIONS REGARDING THE INSTALLATION OF THIS SOLID FUEL BURNING APPLIANCE.

ASSEMBLY INSTRUCTIONS

NOTICE: Vogelzang International Corp. grants no warranty, stated or implied, for the installation or maintenance of your wood stove and assumes no responsibility of any incidental or consequential damages.

TOOLS AND MATERIALS REQUIRED FOR INSTALLATION

TOOLS

- **Pencil**
- **6 foot Folding Rule or Tape Measure**
- **Tin Snips**
- **Drill: Hand or Electric**
- **1/8" dia. Drill Bit (for sheet metal screws)**
- **Screwdrivers (blade and Phillips type)**
- **5/16 inch Nut Driver or Ratchet with 5/16 inch Socket**
- **Safety Glasses**
- **Gloves**

MATERIALS

(NOTE: The following items are NOT included with your stove)

Flooring Protection: 36" x 48" as specified (see page 7)

Chimney Connector Pipe: 6" dia. minimum 24 MSG black or 26 MSG blue steel straight stove pipe or elbow(s) as required.

1/2" Sheet Metal Screws

Chimney: Existing 6" Code-approved Lined Masonry Chimney or 6" Inside Dia. Listed Type HT manufactured chimney.

Furnace Cement (manufacturer recommends Rutland Code 78 or equivalent)

CAUTION: STOVE IS HEAVY. MAKE SURE YOU HAVE ADEQUATE HELP AND USE PROPER LIFTING TECHNIQUES WHENEVER MOVING STOVE.

1. Uncrate the stove and remove all cardboard and styrofoam packing materials and protective poly bag. Remove pedestal base, sides, front, top, ash-drawer and ash drawer support from the carton. (Save packing materials for further assembly.)

   NOTICE: DO NOT remove ceramic blanket material from inside stove pipe opening (Fig. 1).

Figure 1 – DO NOT remove ceramic blanket from inside stove pipe opening. This is NOT packing material but an integral component of the stove combustion system.

2. Remove parts and hardware pack located inside firebox.

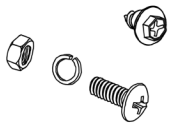

Figure 2 – Pedestal Assembly Hardware sheet metal screws, 5/16˝ machine screw, lock washer & hex nuts

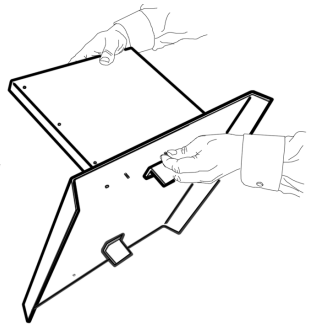

Figure 3 – Assemble sides to base

3. Align the hole pattern of one of the pedestal sides to the holes in the base and secure with four (4) machine screws, lock washers and hex nuts. Assemble the opposite side to the base. (Note: Sides are interchangable)

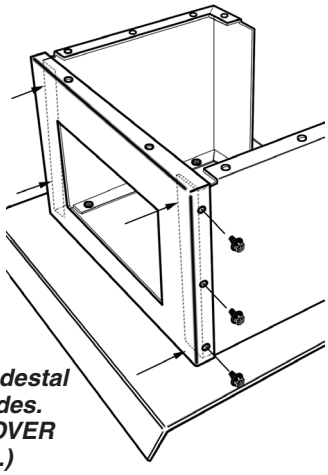

Figure 4 – Attach Pedestal Front Frame to Sides. (Note– front goes OVER the side panels.)

4. Attach the pedestal front frame to the sides. The pedestal front should go ***over*** (not inside of) the side panels. Use three (3) self-tapping screws (provided in the hardware pack) on each side to attach both pedestal sides (#15) to the pedestal front (#17).
5. Position ash drawer support into assembled pedestal (Figure 5) and secure from rear with two (2) machine screws, lockwashers and hex nuts. Tighten all pedestal hardware.

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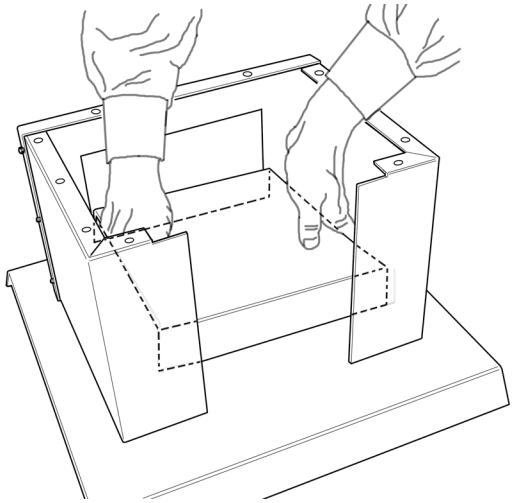

Figure 5 – Insert Ash Drawer Support.

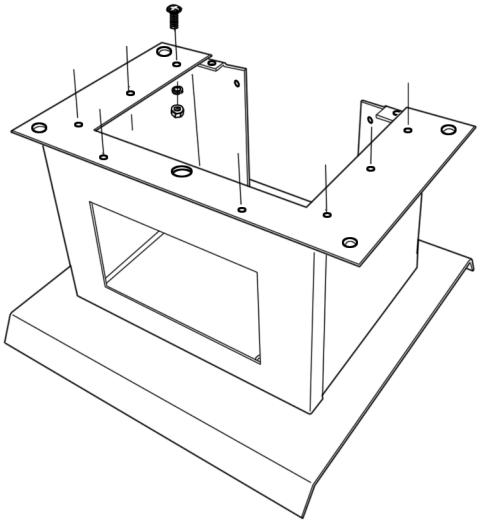

Figure 6 – Attach Pedestal Top.
(Note– Position vent orfice towards front.)

6. Position the pedestal top with the large vent hole positioned toward the front and attach with six (6) machine screws, lock washers and hex nuts. (See Figure 6)
7. Place flattened carton/styrofoam packing material on floor and carefully tip the stove body onto it's back

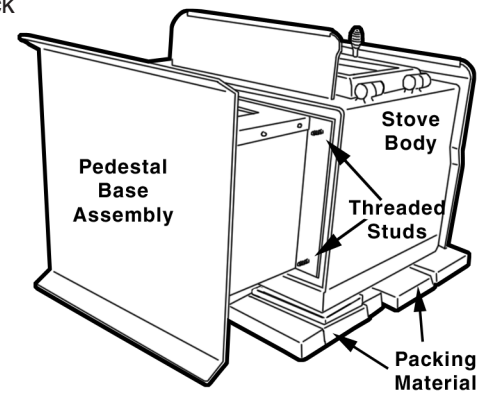

Figure 7 – Attach Pedestal to Stove Body

8. Align four (4) corner mounting studs with holes in pedestal top (Figure 7). Secure with four (4) hex nuts.
9. Tip the stove assembly upright.
10. Set the ash drawer inside the open box formed by the pedestal front and sides.

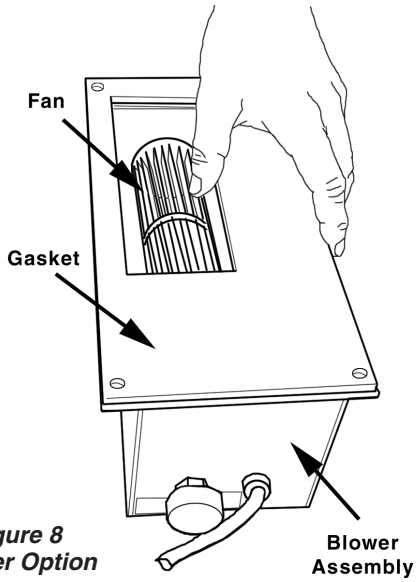

Figure 8
Blower Option

11. For Optional Blower Assembly, note the position of the blower opening in the rear of the stove.
12. Place blower gasket onto blower assembly so as not to obstruct the air flow from the fan.

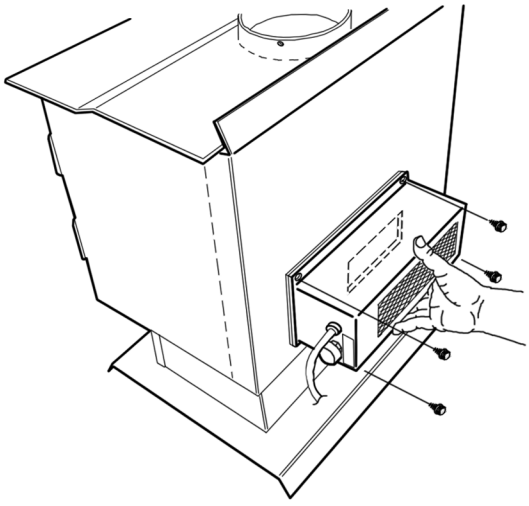

Figure 9 – Attach Optional Blower to Stove Body

13. Mount the blower assembly to the back of the stove aligning the fan opening to the opening in the back of the stove. Secure with four sheet metal screws.
14. After assembly, check to make sure fire brick are properly positioned and ash cleanout cover is in place.

LOCATING STOVE

1. The stove must be placed on solid concrete, solid masonry, or when installed on a combustible floor, on a Type 2 floor protector listed to UL 1618 such as Hy-C or Imperial Model UL3648BK or equivalent with 0.8 R-factor. (NOTE: to calculate R-value of alternative materials see page 16). The base must extend at least 16" beyond the front of the access door, 6˝ to the sides, 12˝ behind and must extend under and 2 inches beyond either side of the stove pipe if it is elbowed towards a wall. (See figures 10 & 12 and consult local building codes and fire protection ordinances.)
2. The stove must have its own flue. Do not connect this unit to a chimney flue serving other appliances.
3. After observing the clearances to combustible materials (figures 10–12), locate your floor protector accordingly (figure 10) and carefully place the stove in your selected location. Install connector pipe, elbows, and thimble as required, utilizing either a recently cleaned and inspected 6" lined masonry chimney or a 6" i.d. listed manufactured chimney.
4. Use round 6˝ dia., minimum 24 MSG black or 26 MSG blue steel stove pipe to connect the stove to the chimney. Do not use galvanized duct pipe. Secure pipe sections with three (3) sheet metal screws in each stove pipe and/or elbow joint to firmly hold the pipe sections together. Do Not connect this stove to any air distribution or duct system.
5. Recheck clearances from the stove, connector stove pipe, and corner clearances using the illustrations in figures 10–12 and your local building codes or fire protection ordinances.

   NOTE: A wall faced with drywall, brick or stone MUST be considered a combustible surface.
6. **DO NOT install this stove in a mobile home, Manufactured Home, Tent or trailer – NO EXCEPTIONS! (HUD Federal Standard: 24 CFR Ch.xx)**
7. The clearances provided are minimum dimensions determined by OMNI-Test Laboratories, Inc. the manufacturer's testing agency. Installation of this stove must comply with the latest edition of NFPA 211 for reduced clearances and/or your local building code rulings. Use whichever minimum dimensions are LARGEST.
8. This stove meets U.S. Test Standard: UL 1482-1996.

CAUTION: KEEP FURNISHINGS AND OTHER COMBUSTIBLE MATERIALS AWAY FROM THE STOVE.

NOTE: BEFORE FIRING WOODSTOVE SLIDE FIREBRICKS TOWARDS THE REAR SO NO GAPS REMAIN BETWEEN BRICKS.

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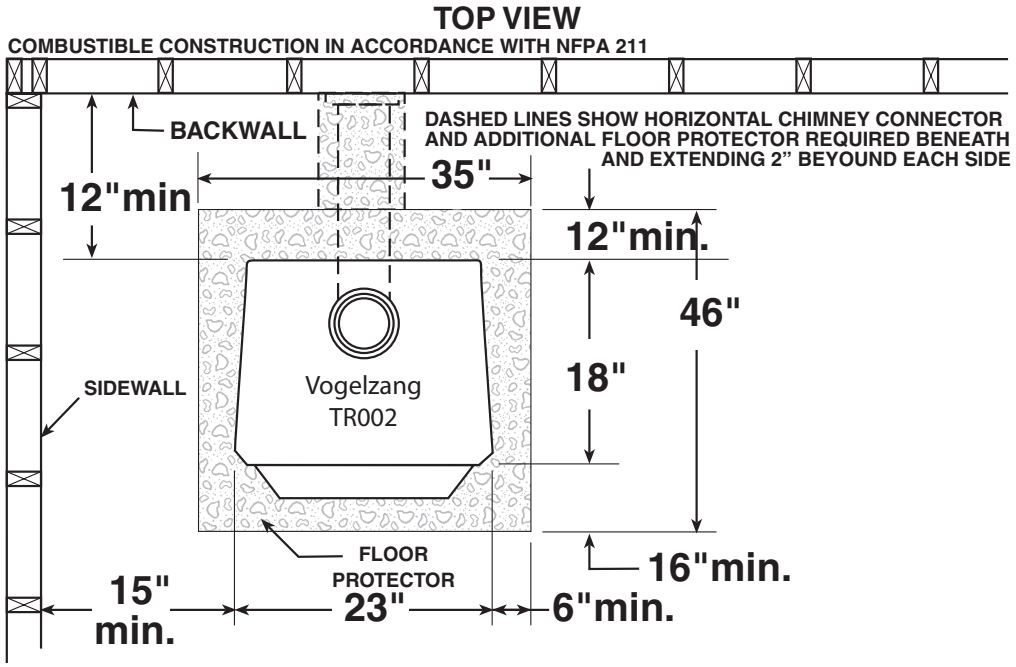


Fig. 10 – TOP VIEW Minimum Clearance Dimensions from Combustible Surfaces

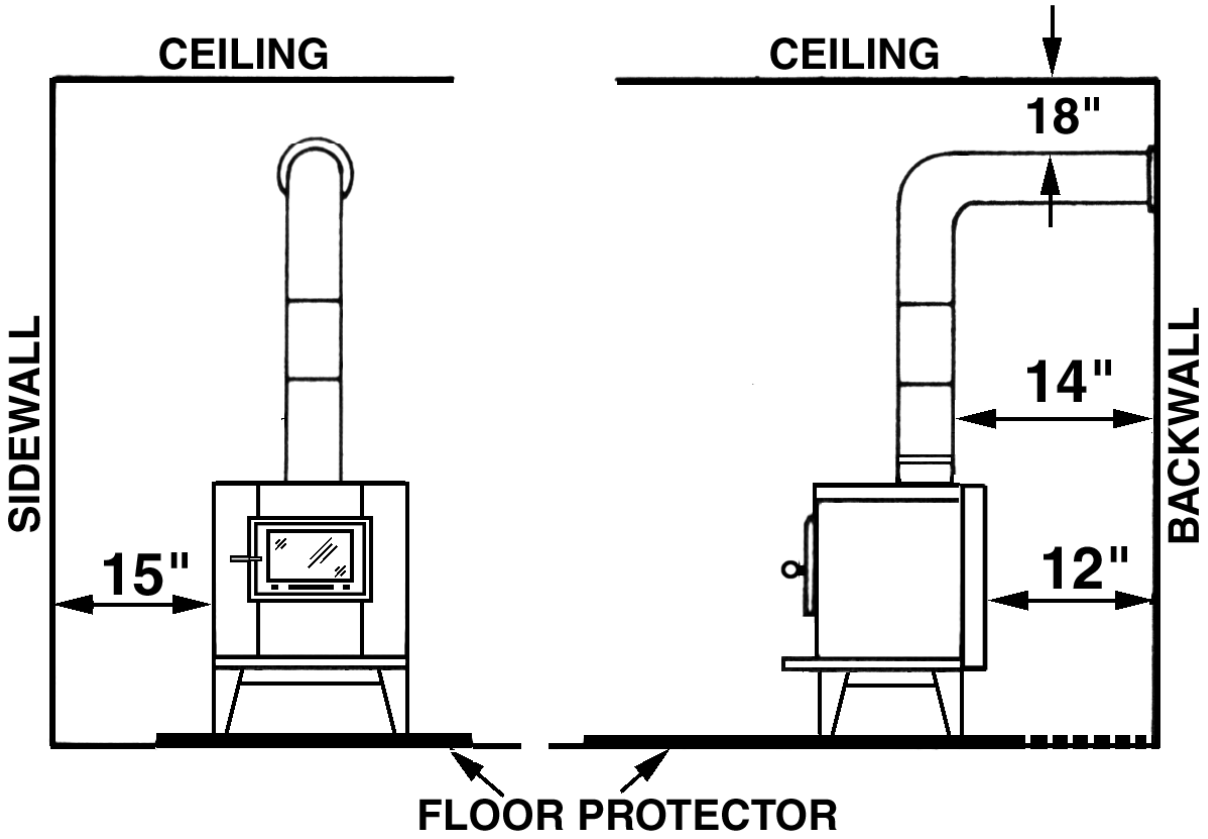


Figure 11a – Front View
Minimum Clearance Dimensions
from Combustible Surfaces

Figure 11b – Side View
Minimum Clearance Dimensions
from Combustible Surfaces

CORNER CLEARANCES

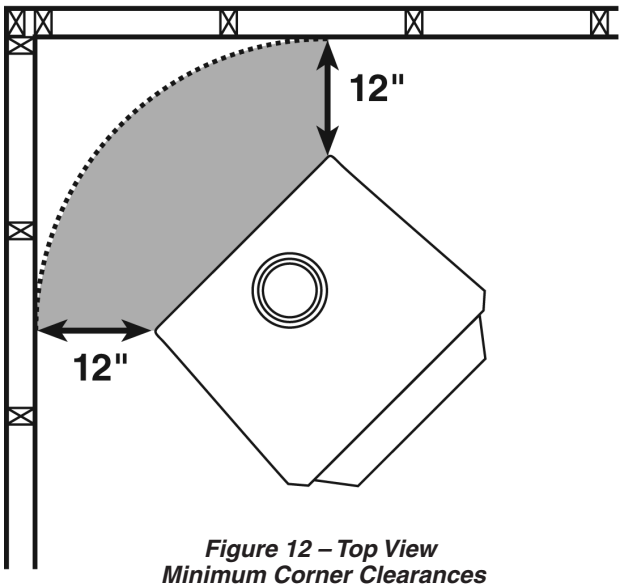


Figure 12 – Top View
Minimum Corner Clearances
from Combustible Surfaces

CONNECTOR PIPE INSTALLATION

1. The crimped end of the stovepipe fits inside the stove flue collar. Install additional pipe and elbow with the crimped end towards the stove. This will allow any condensation in the flue to run back into the firebox.
2. Horizontal pipe runs must slope upwards towards the chimney at least 1/4" per foot of horizontal run.
3. You must have at least 18 inches of clearance between any horizontal piping and the ceiling.
4. The pipe cannot extend into the chimney flue (figure 13).
5. Secure pipe sections with three (3) sheet metal screws no more than a maximum of 3˝/76mm apart in each stove pipe and/or elbow joint to firmly hold the pipe sections together.
6. It is recommended that no more than two (2) 90° bends be used in the stovepipe installation. The use of more than two 90° bends may decrease the amount of draw and possibly cause smoke spillage. Where possible, use only corrugated (non adjustable) elbows. These provide a better seal.
7. The connector pipe must not pass through an attic or roof space, closet, or any concealed space, floor, ceiling, wall or combustible construction. (See Chimney Connector Systems & Clearances, page 17). A UL 103 HT Listed chimney must be used from the first penetration of ceiling or wall to the chimney cap.

WARNING: DO NOT USE SINGLE WALL CONNECTOR PIPE AS A CHIMNEY. DO NOT USE GALVANIZED DUCT PIPE AS A CONNECTOR PIPE. A HOUSE FIRE COULD RESULT.

NOTE: CHIMNEY & CONNECTOR PIPE IS *NOT INCLUDED*. TO PURCHASE, VISIT YOUR LOCAL HARDWARE, HOME OR BUILDING CENTER. SEE "LOCATING STOVE" PAGE 7 FOR ADDITIONAL SPECIFICATIONS.

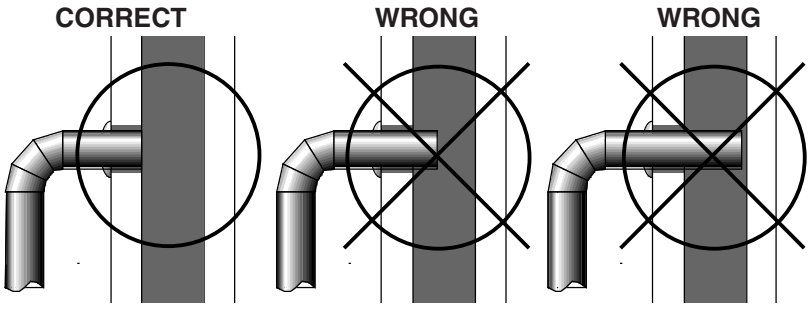
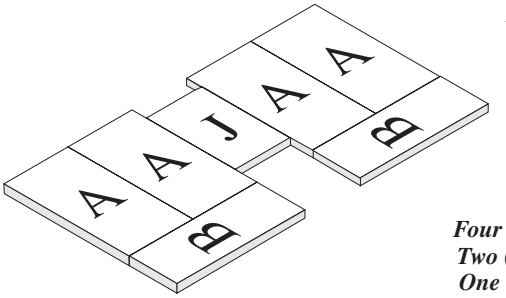


Figure 13 – Stovepipe/Flue Connections

FIREBRICK ASSEMBLY

Firebrick extends the life of your stove and radiates heat more evenly. Check to see that all firebricks are in their correct positions and have not become misaligned during shipping or assembly. If removed for ease of locating stove, firebrick must be replaced before firing. See diagrams, fig. 14a – 14c, for proper positioning.

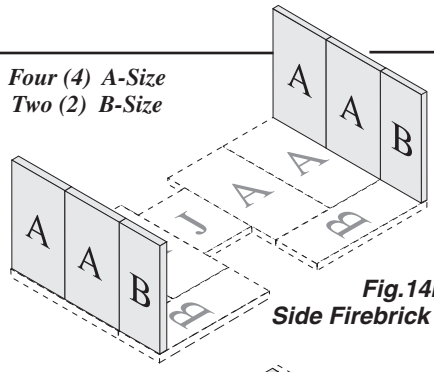
CAUTION: NEVER OPERATE STOVE WITH MISSING OR CRACKED FIRE BRICKS!



Fire Brick Dimensions
A-Size: 9"x4½"x1¼"
B-Size: 9"x2¾"x1¼"
C-Size: 9"x3¼"x1¼"
J-Size: 3"x3¼"x1¼"

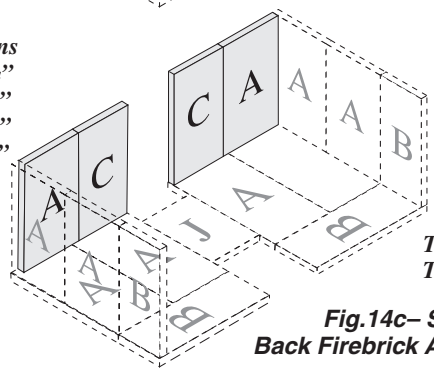
Four (4) A-Size
Two (2) B-Size
One (1) J-Size

Figure 14a – Step 1, Bottom Firebrick Arrangement



Four (4) A-Size
Two (2) B-Size

Fig.14b– Step 2, Side Firebrick Arrangement



Two (2) A-Size
Two (2) C-Size

Fig.14c– Step 3, Back Firebrick Arrangement

CHIMNEY CONNECTIONS

The stove must be connected to either a lined masonry or manufactured metal chimney built and tested to the specifications listed on the previous pages.

Chimneys perform two functions:

1). As a means of exhausting smoke and flue gases which are the result of fuel combustion.

2). The chimney (only) provides "draft" which allows oxygen to be continuously introduced into the appliance, so that proper combustion is possible. This stove relies on natural draft to operate.

NOTICE: Always provide a source of fresh air into the room where the stove is located. Failure to do so may result in air starvation of other fuel burning appliances and the possible development of hazardous conditions, fire or death.

Your stove does not create draft. ***Draft is provided by the chimney.*** To achieve proper draft your chimney must meet the three minimum height requirements detailed in figures 16–18. A minimum of 0.05 w.c. (measured in water column) is required for proper drafting to prevent back puffing, smoke spillage, and to maximize performance. (Gauges to measure draft are readily available at stove stores and are economical to rent or purchase.)

Factors such as wind, barometric pressure, trees, terrain and chimney temperature can have an adverse effect on the draft. The manufacturer cannot be held responsible for external factors leading to less than optimal drafting.

Should you have a problem with inadequate draft, you should contact a licensed heating and cooling contractor for assistance in solving the problem.

IMPORTANT Installation Points

1. Size chimney flue to stove collar. This stove requires a 6" diameter flue.
2. Never connect this unit to a chimney serving another appliance.
3. The chimney must meet all minimum height requirements.
4. Never use a chimney to ventilate a cellar or basement.
5. Contact your local building authority for approved methods of installation and any necessary permits and/or inspections.

MASONRY CHIMNEY

Before using an existing masonry chimney, clean the chimney, inspect the flue liner and make any repairs needed to be sure it is safe to use. Make repairs before attaching the stove. The connector stove pipe and fittings you will need to connect directly to a lined masonry chimney are shown in figure 15.

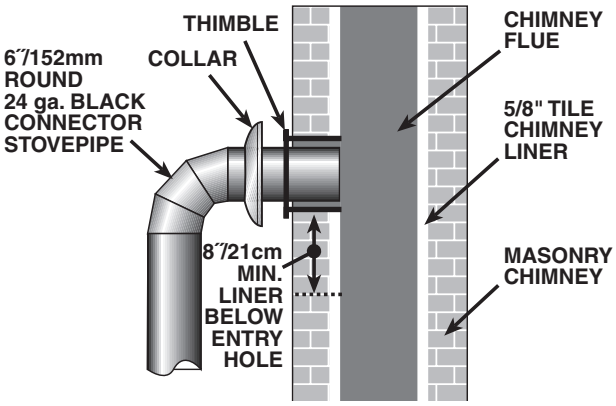


Figure 15 - Masonry Chimney Connection

If the connector stove pipe must go through a combustible wall before entering the masonry chimney, consult a qualified mason or chimney dealer. The installation must conform to local building and fire codes and latest edition of NFPA 211.

If there is a cleanout opening in the base of the chimney, close it tightly.

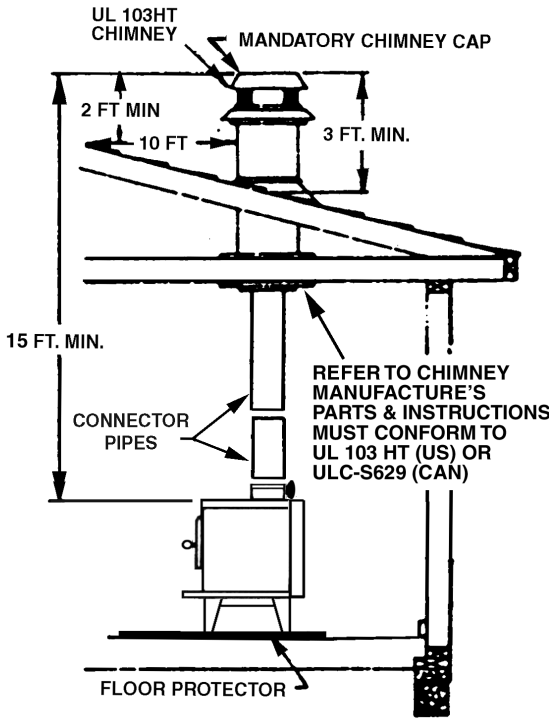

UL 103HT CHIMNEY
MANDATORY CHIMNEY CAP
2 FT MIN
10 FT
3 FT. MIN.
15 FT. MIN.
REFER TO CHIMNEY MANUFACTURE'S PARTS & INSTRUCTIONS MUST CONFORM TO UL 103 HT (US) OR ULC-S629 (CAN)
CONNECTOR PIPES
FLOOR PROTECTOR

Figure 16 - Chimney Construction through Attic Space

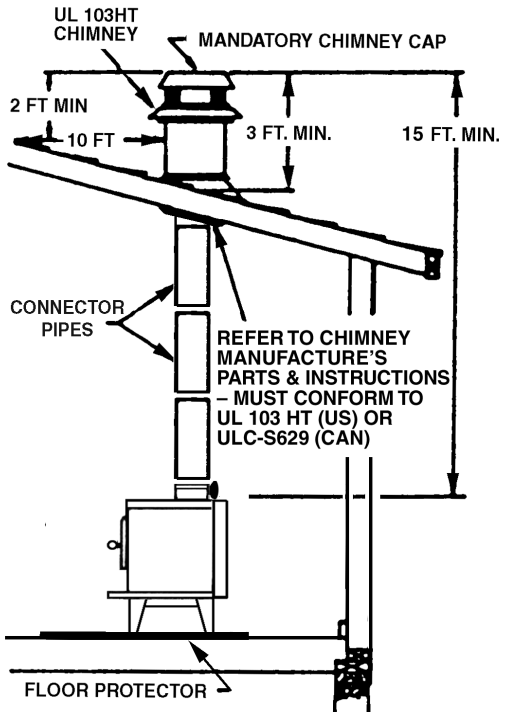


Figure 17 - Chimney Construction through Roof

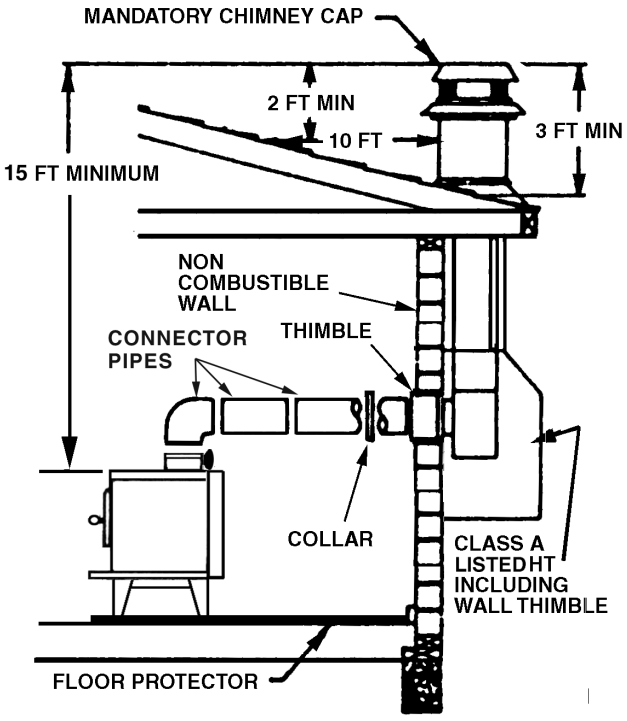


Figure 18 - Chimney Connection to Firebox through Masonry Wall

MANUFACTURED CHIMNEY

REFER TO CHIMNEY AND CHIMNEY CONNECTOR MAKER'S INSTRUCTIONS FOR INSTALLATION AND USE.

Use only 6" diameter listed chimney UL 103 HT. Chimney made to this listing is High Temperature rated to 2100 degrees Fahrenheit. Use chimney from only one manufacturer. Never mix brands. Carefully follow the chimney manufacturer's stated requirements and clearances. Use the chimney manufacturer's attic guards, roof supports, flashing and fire stops when passing through a ceiling. Use a listed thimble when passing through a combustible wall. Do not use makeshift compromises during installation. Never use a single-wall connection pipe as a chimney!

When using a pre-existing chimney, have it's condition and installation inspected before using. Make sure that the chimney meets all of the UL rating requirements listed above. Be aware that not all manufactured chimney is of the UL 103 HT type.

NOTE: It is recommended that you contact a licensed heating and cooling contractor (consult your local yellow pages) for chimney installation.

Manufactured chimney with the proper required UL listing is available from most home centers, hardware stores, and HVAC supply stores.

If you have access to the internet, you may wish to view chimney manufacturers' information on-line. See, www.duravent.com, www.selkirkinc.com, or www.mtlfab.com.

VENTING TO EXISTING FIREPLACE

In some instances, people desire to convert an existing fireplace for stove use. Usually, safe connection to an existing masonry chimney requires more work than using a prefabricated chimney. The existing fireplace must be closed and sealed at the damper with high-temperature caulk, ceramic wool, or furnace cement. Prior to installation, clean and inspect the existing flue and smoke shelf. Installation should be designed so the system can be dismantled for periodic cleaning and inspection. Before conversion, make sure the existing chimney is structurally sound, the chimney incorporates a flue liner and make sure it is in good condition. (A flue liner consists of clay tile that protects the brickwork of a chimney. If a chimney does not have a liner, or it is damaged, have it relined by a professional. ***Do Not use a chimney that is unlined or damaged!)*** If you have any question regarding the condition of the chimney, consult a qualified licensed contractor, qualified engineer, competent mason, certified Chimney Sweep,

continued on next page

or a knowledgable inspector. Consult your insurance company if you cannot find a qualified expert.

CAUTION: NOT ALL FIREPLACES ARE SUITABLE FOR CONVERSION TO ACCOMMODATE A WOOD STOVE. CHECK WITH A QUALIFIED EXPERT.

Many prefabricated fireplaces are of the "zero-clearance fireplace" category. These consist of multilayered metal construction. They are designed with enough insulation and/or air cooling on the base, back and sides so they can be safely installed in direct contact with combustible floors and walls. Although many prefabricated fireplaces carry endorsements from nationally recognized organizations for use as fireplaces, they have not been tested for connection to wood stove heaters. Connecting a stove to such a device will void the manufacturer's warranty.

Venting a stove directly into a fireplace does not meet code and should not be attempted. The stove warranty will be void with such an installation. Do not create a hazard in your home by connecting in this manner.

FIREPLACE INSTALLATION

Directly connecting the stovepipe into the existing masonry chimney (figure 19 "Type A" Fireplace Conversion) of the fireplace is the only approved method of installation. This is a complicated and involved process and to insure safety should only by done by a qualified installer.

1. An entry hole must be cut through the masonry and tile liner with minimal damage to the liner. At least 8" of liner must remain below the entry position. When locating the stove and stovepipe, all minimum clearances must be observed from combustible surfaces including mantels, combustible trimwork, ceilings and walls. Positioning the center of the stove pipe entry into the chimney 24" below the ceiling should insure proper clearance for a 6" stovepipe.
2. Install a metal or fire clay (5/8" minimum thickness) thimble. Make sure the thimble is flush with the inner surface of the chimney liner and does not protrude into the flue (see figure 13 on page 9).
3. Secure the thimble with refractory mortar. The thimble should be surrounded by 12" of solid unit masonry brickwork or 24" of stone.
4. Install the stovepipe into the thimble as far as possible without extending past the flue lining (see figures 13 & 15 on pages 9 & 10).
5. A small airspace (about 1/2") should remain between the stovepipe and thimble to allow for expansion of the pipe. Seal this airspace with high-temperature caulking or ceramic wool.
6. Secure and seal the damper in the closed position using high-temp caulking, ceramic wool, or furnace cement. Also check to see if the chimney has a cleanout. If it does, make sure it is closed and sealed as well. A leaky cleanout will greatly reduce draft efficiency.

If you have any questions regarding venting your stove, contact the manufacturer or contact the National Fire Protection Association (NFPA) and request a copy of the latest editions of NFPA Standard 211 and NFPA Standard 908. Their address is:

Battery March Park, Quincy, MA 02269.

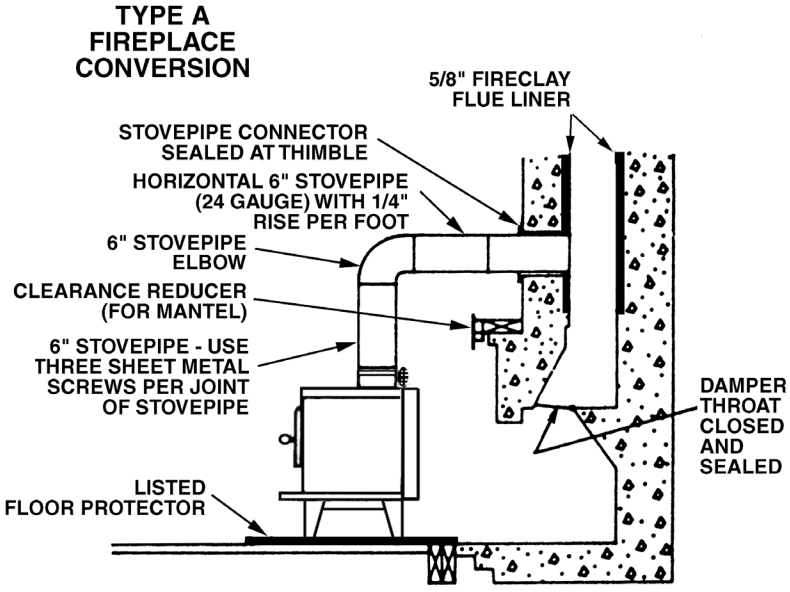


Figure 19 - Fireplace Conversion

CAUTION: HOUSE FIRE HAZARDS

• DO NOT STORE WOOD ON FLOOR PROTECTOR, UNDERNEATH STOVEPIPE OR ANYWHERE WITHIN MINIMUM CLEARANCES FROM COMBUSTIBLE SURFACES SPECIFIED FOR THIS STOVE.

• OVERFIRING MAY CAUSE A HOUSE FIRE. YOU ARE OVERFIRING IF A UNIT OR CHIMNEY CONNECTOR GLOWS RED.

OPERATING SAFETY PRECAUTIONS

1. **NEVER OVERFIRE THIS STOVE BY BUILDING EXCESSIVELY HOT FIRES AS A HOUSE/BUILDING FIRE MAY RESULT. YOU ARE OVERFIRING THE STOVE IF UNIT OR STOVEPIPE BEGINS TO GLOW OR TURN RED.**
2. **NEVER BUILD EXTREMELY LARGE FIRES IN THIS TYPE OF STOVE AS DAMAGE TO THE STOVE OR SMOKE LEAKAGE MAY RESULT**
3. **ON MODELS WITH GLASS DOOR, DO NOT BUILD FIRE TOO CLOSE TO GLASS.**
4. **UNIT IS HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS. DO NOT TOUCH THE STOVE AFTER FIRING UNTIL IT HAS COOLED.**
5. **PROVIDE AIR INTO THE ROOM FOR PROPER COMBUSTION.**
6. **INSPECT STOVEPIPE EVERY 60 DAYS. REPLACE IMMEDIATELY IF STOVEPIPE IS RUSTING OR LEAKING SMOKE INTO THE ROOM.**

WARNING: EXPLOSION HAZARD

• NEVER USE CHEMICALS, GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR FLAMMABLE LIQUIDS TO START OR "FRESHEN-UP" A FIRE IN THE STOVE.

• KEEP ALL FLAMMABLE LIQUIDS, ESPECIALLY GASOLINE, OUT OF THE VICINITY OF THE HEATER — WHETHER IN USE OR IN STORAGE.

THIS STOVE IS DESIGNED TO BURN WOOD FUEL ONLY!

Hardwood, 15" to 17" should be split and air dried (seasoned), for 6 months to obtain maximum burning efficiency. Wood should be stored in a dry, well ventilated area.

NOTICE: USE SOLID WOOD MATERIALS ONLY. DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS. DO NOT USE COAL THIS STOVE IS NOT DESIGNED TO ACCOMMODATE THE AIR FLOW (DRAFT) NECESSARY TO PROPERLY BURN COAL OR COAL PRODUCTS. DO NOT ELEVATE FIRE OR USE GRATES OR ANDIRONS. BUILD FIRE DIRECTLY ON BOTTOM OF FIREBOX.

OPTIMAL FUEL CONSUMPTION

This stove is designed to get the most efficient transfer of heat energy from the wood fuel and radiate it into your living environment. The fire box introduces combustion air through three sources. (1) Immediately beneath the door opening below the window is a Lower Primary Air Orifice (LPAO). (2) The door air inlet control brings air into the firebox and controls the rate of burn (and the amount of heat the stove radiates). (3) The secondary air tubes at the top of the firebox are designed to ignite the combustion gases (smoke) given off by the burning wood and increases the efficiency of the stove and reduces chimney emissions.

Smoke given off by burning fuel consists of very small organic liquid droplets. If these droplets condense, they form a sticky tar-like substance called creosote. When operated properly, this stove is designed to burn these droplets. Burning these droplets releases heat that would otherwise be lost up the chimney as smoke. Following the instructions below will help you operate your stove properly to maximize the stove's performance. Actual performance is dependent on chimney height, weather, log size, wood species and moisture content. Some experimentation will initially be required to find that "sweet spot" where your stove performs best. The following will give you a starting point to find your optimum settings.

When first loading fuel set the door air inlet control at the wide open position for at least 15–20 minutes. When the stove is working properly you should be able to observe secondary combustion flames above the fuel pieces in front of the secondary air tubes at the top of the firebox. These secondary flames should continue to burn after the primary air inlet is reset from wide open to the desired operating setting. If the flames do not

continued on next page

continue to burn, open the air control to re-establish the secondary flames then slowly reset the air control to the desired setting. Initially it may take several attempts to figure your stove out. But once you find the operating "sweet spot" and the correct mix of procedures to get there, only minor adjustments will be necessary.

The best indicator of a properly operating stove is to look for smoke coming out of the chimney. You may see steam emissions that will quickly dissipate. Smoke will thin but continue to drift without totally disappearing. If you do detect smoke emissions, open the air control a little bit, let the stove adjust for 10–15 minutes and re-check your chimney. Remember – visible smoke represents lost heat.

NOTICE - INITIAL BURNS TO CURE PAINT

BECAUSE OF THE HIGH OPERATING TEMPERATURES, THIS STOVE USES A SPECIAL HIGH-TEMP PAINT WHICH REQUIRES A SERIES OF BURNS TO CURE THE PAINT FOR DURABILITY AND A LIFETIME OF SERVICE.

Proper curing of the high-temp paint requires a series of three initial burns. The stove should be allowed to cool off between each burn. The first two burns should be small fires and low temperatures (250 degrees F) for a duration of 20 minutes each. The third fire should be at a medium-high temperature (500 F to 700 F) for twenty minutes. Provide adequate cross ventilation to clear any smoke or odor caused by initial firings.

STARTING A FIRE

1. Set air inlet control to fully open position.
2. Open the feed door and place several wads of crushed paper in the firebox.
3. Cover the paper with a generous amount of kindling in a teepee fashion and a few small pieces of wood.
4. Ignite the paper and leave the door open slightly. **DO NOT LEAVE STOVE UNATTENDED WITH DOOR OPEN!**
5. Add large pieces of wood as the fire progresses being careful not to overload. (Do not fill firebox beyond firebrick area.) An ideal coal bed of 1 – 2" should be established to achieve optimum performance.
6. This unit is designed to function most effectively when air is allowed to circulate to all areas of the firebox. TIP: If ash or coals remain in the stove, make sure to clear them away from the Lower Primary Air Orifice (LPAO) and rake a slight (1-to-2 inch wide) trough down the center of the coal bed from front to back prior to loading the fuel.
7. Once fuel has been loaded, close the door and leave the air inlet control fully open until fire is well established (at least 15–20 minutes) being careful not to overfire (if any of the exterior parts of the stove or chimney connections begin to glow you are overfiring the stove).
8. Re-adjust the door air inlet control to desired burn rate. (If excessive smoke fills the firebox, open air inlet control slightly until flames resume and wood is sufficiently ignited.) The basic rule of thumb is "closed - low," "half way open - medium" and "fully open - high."

ADDING FUEL

If the coal bed is not hot and glowing, rake the coals to the front of the stove, close the door and adjust the air inlet control to the wide open position. Let the coals reheat for 10–15 minutes. When hot and glowing, spread them out and place your next fuel load into the stove (make sure no coals or ashes block the LPAO). Leave the door air inlet control in the wide open position for 15–20 minutes.

Fuel load size can vary but should be kept 1–2 inches below the secondary air tubes. Also position the fuel to leave space so the air from the inlet can work down between the pieces of fuel. This reduces the time it takes for new fuel to burn properly.

1. When refueling, adjust air inlet control to the fully open position. When fire brightens, slowly and carefully open the door. This procedure will prevent gases from igniting causing smoke and flame spillage.
2. Add fuel being careful not to overload or overfire the stove.
3. When adding fuel be careful not to smother the fire. Do not build fires against glass and make sure the coal bed does not obstruct the air inlet.
4. Close the feed door and secure tightly.
5. Adjust the air inlet control as described above.
6. Empty ashes regularly. Do not allow ashes to pile up (see Safety Instructions #14 on page 2.)
7. Properly dispose of hot ashes (see Safety Instructions, item #14 on page 2.)

continued on next page

8. Do not overfire the stove (overfiring is when any part of the stove exterior or chimney connections glow).

CAUTION: DO NOT OVERFIRE APPLIANCE. YOU ARE OVERFIRING IF THE CHIMNEY CONNECTORS OR STOVE GLOWS RED. CLOSE THE DOOR AND SHUT DAMPER IMMEDIATELY TO REDUCE THE AIR SUPPLY AND SLOW DOWN THE FIRE.

CAUTION: SLOW BURNING FIRES AND EXTENDED USE MAY CAUSE EXCESSIVE CREOSOTE BUILDUP. IGNITION OF CREOSOTE OR OVERFIRING MAY CAUSE A CHIMNEY FIRE. CHIMNEY FIRES BURN EXTREMELY HOT AND MAY IGNITE SURROUNDING MATERIALS. IN CASE OF A CHIMNEY FIRE CALL THE FIRE DEPARTMENT IMMEDIATELY.

SERVICE HINTS

CREOSOTE – FORMATION AND REMOVAL

When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire and can accumulate on the flue lining. If ignited, this creates an extremely hot fire in the chimney which may ignite surrounding materials resulting in a building fire.

The chimney connector and chimney should be inspected (at least) **twice a month** during the heating season to determine if a creosote buildup has occurred. If it has, it should be removed. Failure to remove creosote may result in ignition and may cause a house/building fire. Creosote may be removed using a chimney brush or other commonly available materials from your local hardware retailer.

Chimney fires burn very hot. If the unit or chimney connector should glow red, reduce the fire by closing the inlet air control and immediately call the fire department.

CAUTION: A CHIMNEY FIRE MAY CAUSE IGNITION OF WALL STUDS OR RAFTERS WHICH WERE ASSUMED TO BE A SAFE DISTANCE FROM THE CHIMNEY. IF A CHIMNEY FIRE HAS OCCURRED, HAVE YOUR CHIMNEY INSPECTED BY A QUALIFIED EXPERT BEFORE USING AGAIN.

A fire in the firebox may be smothered by pouring a large quantity of coarse salt, baking soda, or cool ashes on top of the fire.

PREVENTING CREOSOTE BUILDUP

1. Burn with air control open for several minutes at numerous intervals throughout the day during the heating season, being careful not to overfire the unit.
2. Burn stove with air inlet control wide open for 15–20 minutes every time you apply fresh wood. This allows wood to achieve the charcoal stage faster and burns wood vapors which might otherwise be deposited within the heating system.
3. BURN ONLY SEASONED WOOD. Avoid burning wet or green wood. Seasoned wood has been dried for at least one year.
4. A small hot fire is preferable to a large smoldering one that can deposit creosote within the heating system.
5. Establish a routine for the handling of fuel, wood burner and firing technique. Check daily for creosote buildup until experience shows how often you need to clean for safe operation. Be aware that the hotter the fire, the less creosote is deposited and weekly cleanings may be necessary in mild weather even though monthly cleanings may be enough in colder months.

WARNING: IN CASE OF CHIMNEY FIRE (1) CLOSE AIR INLET CONTROL (2) GET OUT OF THE HOUSE (3) CALL THE FIRE DEPARTMENT.

CHIMNEY DRAFT

Draft is a function of the chimney, not the stove — do not expect the stove to draw. Smoke spillage into the house or excess buildup of condensation or creosote in the chimney are warnings that the chimney is NOT functioning properly. Correct the problem before using the stove. Following are some possible causes for improper draft.

1. The connector stovepipe may be pushed into the chimney too far, stopping the draft.
2. If the chimney is operating too cool, water will condense in the chimney and run back into the stove. Creosote formation will be rapid and may block the chimney. Operate the stove at a fire level high

continued on next page

enough to keep the chimney warm preventing this condensation.

3. If the fire burns well but sometimes creates excessive smoke or burns slowly, it may be caused by the chimney top being lower than another part of the house or a nearby tree. The wind blowing over a house or tree, falls on top of the chimney like water over a dam, beating down the smoke. The top of the chimney should be at least three (3) feet above the roof and be at least two (2) feet higher than any point of the roof within ten (10) feet.

NOTE: A DRAFT READING OF 0.05 TO 0.06 W.C. (WATER COLUMN) IS SUGGESTED FOR PROPER BURNING OF THIS STOVE.

GLASS CARE

CAUTION: DO NOT OPERATE WITH CRACKED OR BROKEN GLASS.

Periodic cleaning of glass will be necessary to prevent accumulations of ash. Ash buildup can eventually etch and weaken glass. Creosote accumulations should burn off during hot fires. The following usage and safety tips should be observed:

1. Inspect the glass regularly for cracks and breaks. If you detect a crack or break, extinguish the fire immediately and contact the manufacturer for a replacement before re-firing the stove.
2. Do not slam the door or otherwise impact the glass. When closing doors, make sure that logs or other objects do not protrude to impact the glass.
3. Do not build fires against (or that might fall against) the glass.
4. Do not clean the glass with materials that may scratch or damage glass. Scratches on the glass can develop into cracks or breaks during operation.
5. Never attempt to clean the glass while the unit is hot; allow to dry thoroughly before reuse. If deposits are not very heavy, normal glass cleaners are adequate using a soft, non-abrasive cleaning pad.
6. Never put substances which can ignite explosively in the unit. Even small explosions in confined areas can blow out the glass.

GLASS REPLACEMENT

WARNING: REPLACE GLASS WITH PROPER SIZE 5MM HIGH TEMPERATURE CERAMIC GLASS ONLY. DO NOT USE SUBSTITUTE MATERIALS SUCH AS TEMPERED GLASS OR DOUBLE THICK WINDOW GLASS! CONTACT THE STOVE MANUFACTURER FOR REPLACEMENT GLASS.

Gasket and Glass cleaning products are available at local retail home centers. Manufacturers of cleaning products include, A.W. Perkins Co. (www.awperkins.com) or Rutland Products (www.rutland.com).

After extensive use, the gasket material which provides glass and door seal may lose it's resiliency and will need to be replaced. Inspect glass and door gaskets periodically to ensure proper seal; if gaskets become frayed or worn, replace immediately.

Glass Replacement Procedure:

1. Ensure appliance is not in operation and is thoroughly cooled.
2. Remove screw and glass clips. (See parts list and diagram.)
3. Remove glass from door frame.
4. If glass is broken, carefully remove and discard each broken piece to avoid cuts. Discard window gasket. Replace window and gasket with original factory replacement parts.
5. Replace new gasket starting at the bottom of glass working along edges, being sure to center gasket channel on glass.
6. Trim to length and butt ends together.
7. Perform replacement procedure in reverse order after replacing glass and gasket.
8. When replacing glass into door, be sure not to overtighten screws and clips.

DOOR GASKET REPLACEMENT

CAUTION: DO NOT OPERATE A STOVE THAT IS MISSING DOOR GASKET MATERIAL. OVER FIRING AND UNSAFE OPERATING CONDITIONS MAY RESULT.

PROCEDURE:

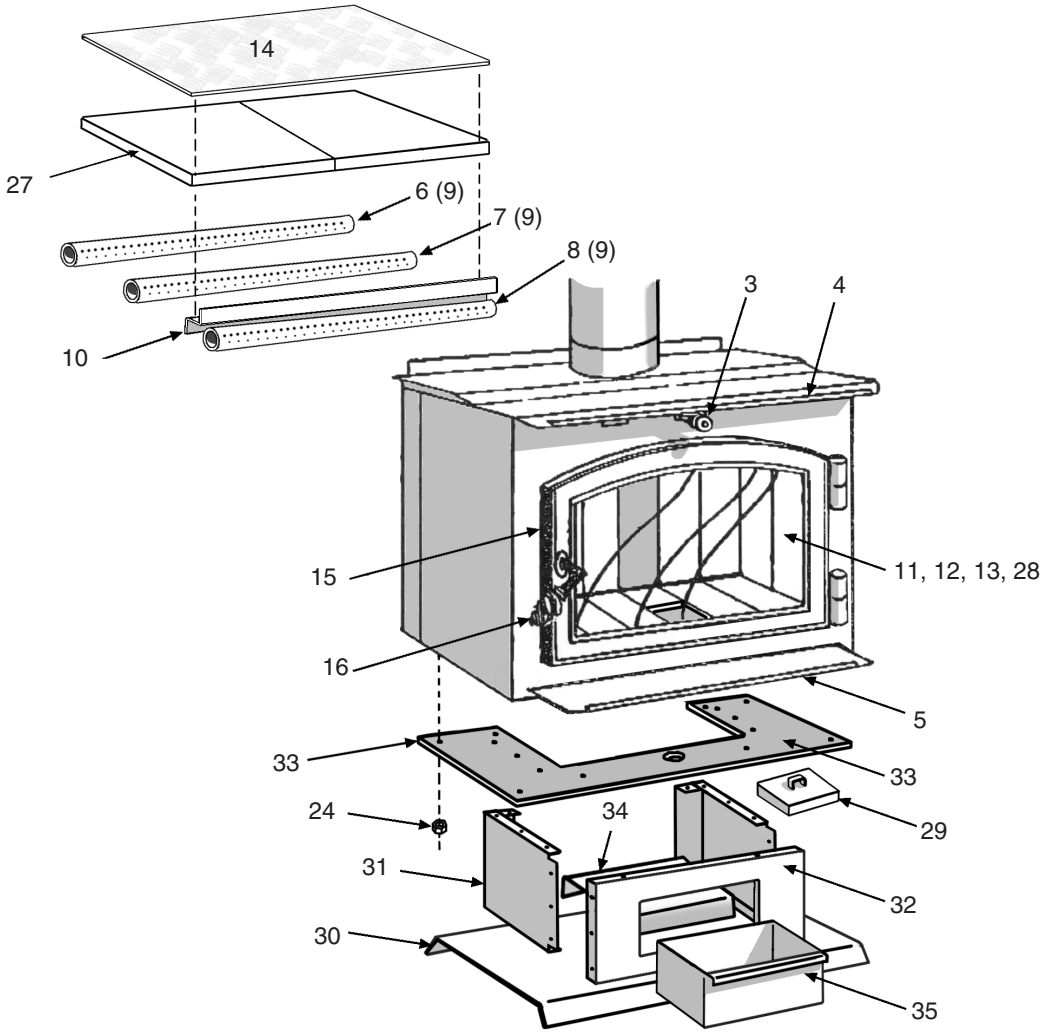
1. Ensure appliance is not in operation and is thoroughly cooled.
2. Remove old door gasket and clean channel.
3. Using an approved, high temperature gasket cement, apply a thin coat in bottom of channel.
4. Starting at hinge side of door, work gasket into channel around door unit, end butt and trim to length.
5. Close door and allow three to four hours for cement to set before firing appliance.

OPTIONAL BLOWER MAINTENANCE

The optional blower is maintenance free other than routine cleaning. Lightly vacuum motor and air inlet to keep free of dust and dirt.

ORDERING PARTS - TROO2 SHILOH™ STOVE

When ordering missing or replacement parts, always give the **Model Number** of the stove, **Part Number**, and **Part Description**. Use the illustrations and part lists provided to identify parts.

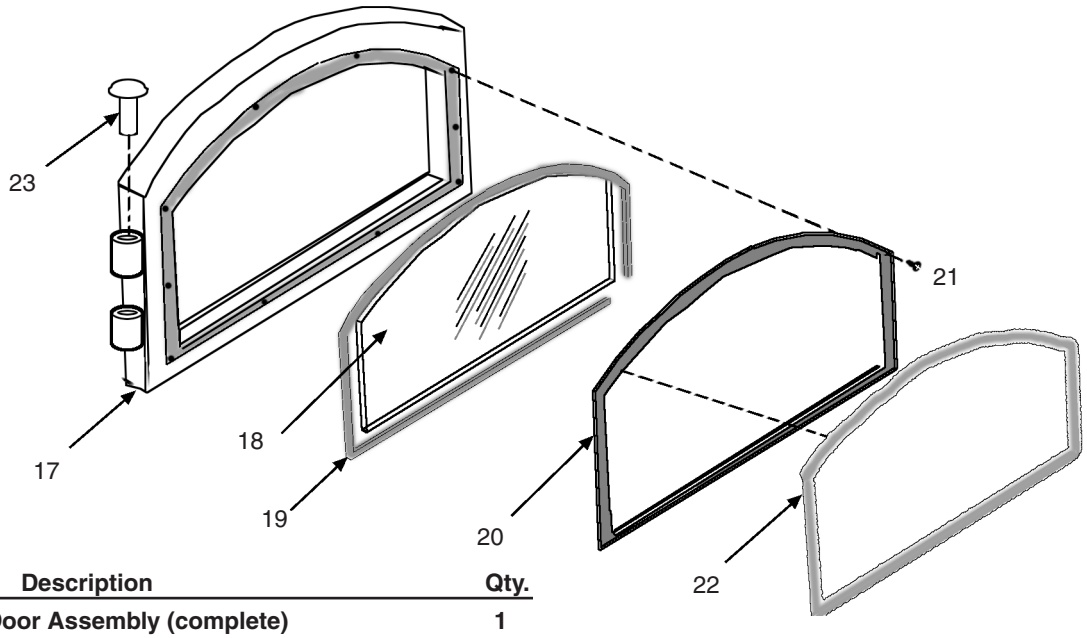


Part No.	Description	Qty.
1		
2		
3	Handle, Slide Draft Spring	1
4	Nickle Trim, Top Plate	1
5	Nickle Trim, Hearth	1
6	Air Tube, Rear	1
7	Air Tube, Middle	1
8	Air Tube, Front	1
9	Retainer Pins, Air Tube	3
10	"Z" Bar, Baffle Support	1
11	Fire Brick, A-size (9″ x 4.5″ x 1.25″)	12
12	Fire Brick, B-size (9″ x 2.75″ x 1.25″)	3
13	Fire Brick, C-size (9″ x 3.25″ x 1.25″)	2
14	Ceramic Fiber Pad	1
15	**Door Assembly (complete)**	1
16	Handle Assembly (complete)	1
17	Door Frame	1
18	Door Glass	1
19	Gasket, 3/8″ Fiberglass Door	1
20	Retainer, Glass	1

Part No.	Description	Qty.
21	Screws, Glass Retainer	8
22	Gasket, 3/8″ Fiberglass Door	1
23	Hinge Pin	1
24	Nuts (pedestal/stove attachment)	4
25	Ceramic Gasket, Blower	1
27	C-Cast Fiberboard (9″ x 9″ x 0.625″)	2
28	Fire Brick, J-size (3″ x 3.25″ x 1.25″)	1
29	Ash Cleanout Cover	1
30	Pedestal Base	1
31	Pedestal Side	2
32	Pedestal Front	1
33	Pedestal Top	1
34	Pedestal Drawr Support	1
35	Ash Drawer	1
Hardware Pack (not shown)		1

PARTS - TR002 SHILOH™ HIGH-EFFICIENCY STOVE

When ordering missing or replacement parts, always give the **Model Number** of the stove, **Part Number**, and **Part Description**. Use the illustrations and part lists provided to identify parts.

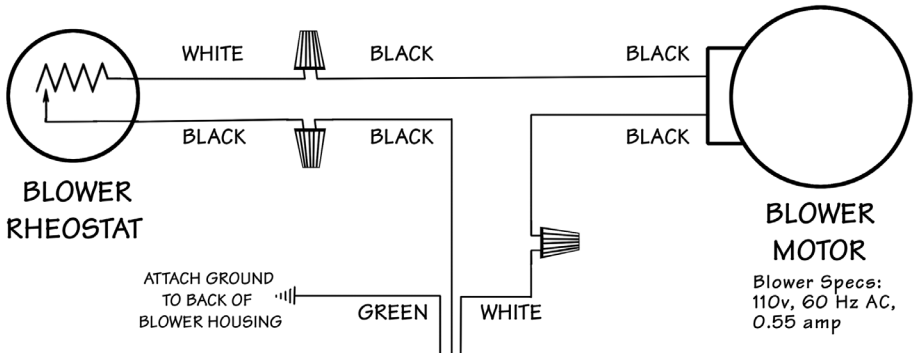


Part No.	Description	Qty.
15	**Door Assembly (complete)**	**1**
16	Handle Assembly (complete)	1
17	Door Frame	1
18	Door Glass	1
19	Gasket, 3/8” Fiberglass Glass	1
20	Retainer, Glass	1
21	Screws, Glass Retainer	8
22	Gasket, Door	1
23	Hinge Pin	2

WIRING DIAGRAM - MODEL F-6 BLOWER OPTION

DANGER: SHOCK HAZARD. DISCONNECT POWER BEFORE INSTALLATION, CLEANING OR WHENEVER SERVICING BLOWER .

CAUTION: MOVING PARTS CAN CAUSE INJURY. DO NOT OPERATE WITH COVER REMOVED.



NOTICE: DO NOT ALLOW POWER CORD TO TOUCH HOT SURFACES! KEEP POWER CORD AT LEAST 12" FROM STOVE OR PIPE SURFACES.

NOTICE: ANY REPLACEMENT WIRING MUST HAVE EQUIVALENT INSULATION AND TEMPERATURE RATING (105°C).

FLOOR PROTECTOR MATERIAL CALCULATIONS

This stove has been tested for and must be installed on a floor protector with the proper Thermal Resistance or R-value as stated in the installation instructions on page 3, "Locating Stove" step 1, of this manual. If the floor protector materials listed in the instructions are not available, materials with an equivalent R-value may be substituted.

Alternate materials may be rated with C-factor (Thermal Conductance) or k-factor (Thermal Conductivity) ratings which must be converted to R-value to determine if the alternate material meets the tested requirements. The following instructions provide the proper information and formulas for conversion to R-value.

To determine if alternate materials are acceptable follow this sequence.

1. Convert material specifications to R-value:
   a. R-value given — no conversion necessary
   b. k-factor is given with a required thickness (T) in inches:
      R = 1/k x T
   c. C-factor is given: R = 1/C
2. Determine the R-value of proposed alternate floor protector:
   a. Use formulas in step 1 above to calculate R-value of proposed material(s).
   b. For multiple layers, add R-values of each layer to determine overall R-value.
3. If the overall R-value of the floor protector system is equal to or greater than the floor protector specifications given, the alternate is acceptable.

Definitions:

Thermal conductance(C) = $\frac{\text{BTU}}{(\text{hr})(\text{ft}^2)(^\circ\text{F})} = \frac{\text{W}}{(\text{m}^2)(^\circ\text{K})}$

Thermal conductivity (k) = $\frac{(\text{Btu})(\text{inch})}{(\text{hr})(\text{ft}^2)(^\circ\text{F})} = \frac{\text{W}}{(\text{m})(^\circ\text{K})} = \frac{\text{Btu}}{(\text{hr})(\text{ft})(^\circ\text{F})}$

Thermal resistance (R) = $\frac{(\text{ft}^2)(\text{hr})(^\circ\text{F})}{\text{Btu}} = \frac{(\text{m}^2)(^\circ\text{K})}{\text{W}}$

Example:

The specs of floor protector material should be 3/4-inch thick material with a k-factor of 0.84.
The proposed alternative material is 4" brick with a C-factor of 1.25 over 1/8-inch mineral board with a k-factor of 0.29.

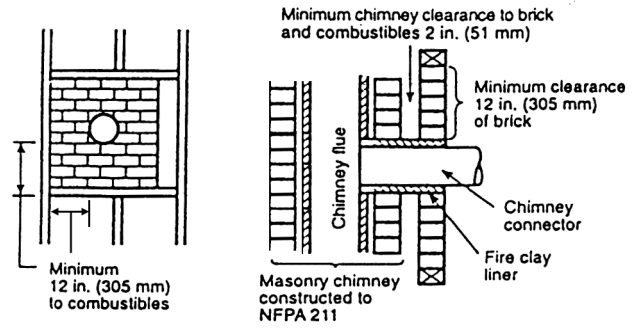
Step 1: Convert specs to R-value.
R = 1/k x T = 1/0.84 x 0.75 = 0.893 System must have a R-value of 0.893 = Rspecs

Step 2: Calculate R-value of individual components
4" Brick with C-factor = 1.25. R = 1/C = 1/1.25 = 0.80 = Rbrick
1/8-inch (0.125") mineral board with k-factor = 0.29. R = 1/0.29 x 0.125 = 0.431 = Rmin.brd.

Step 3: Add R-values of components to get total R-value of system
Rbrick + Rmin.brd = 0.80 + 0.431 = 1.231 = Rsystem

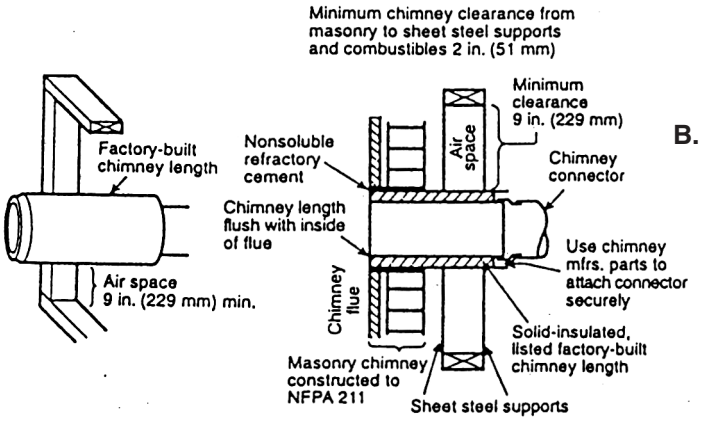
Step 4: Compare Rsystem to Rspecs
Rsystem = 1.231 is larger than Rspecs of 0.893. System R-value exceeds the required specifications and therefore is an acceptable alternative.

CHIMNEY CONNECTOR SYSTEMS & CLEARANCES


Minimum chimney clearance to brick and combustibles 2 in. (51 mm)
Minimum clearance 12 in. (305 mm) of brick
Chimney flue
Chimney connector
Fire clay liner
Masonry chimney constructed to NFPA 211
Minimum 12 in. (305 mm) to combustibles

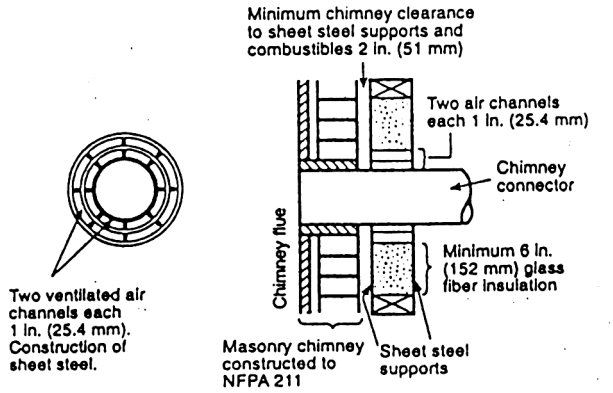
A. Brick Masonry

Minimum 3.5″/89mm thick brick masonry all framed into combustible wall with a minimum of 12″/305mm brick separation from clay liner to combustibles. The fireclay liner shall run from outer surface of brick wall to, but not beyond, the inner surface of chimney flue liner and shall be firmly cemented in place.


Minimum chimney clearance from masonry to sheet steel supports and combustibles 2 in. (51 mm)
Minimum clearance 9 in. (229 mm)
Air space
Factory-built chimney length
Nonsoluble refractory cement
Chimney connector
Chimney length flush with inside of flue
Use chimney mfrs. parts to attach connector securely
Chimney flue
Air space 9 in. (229 mm) min.
Solid-insulated, listed factory-built chimney length
Masonry chimney constructed to NFPA 211
Sheet steel supports

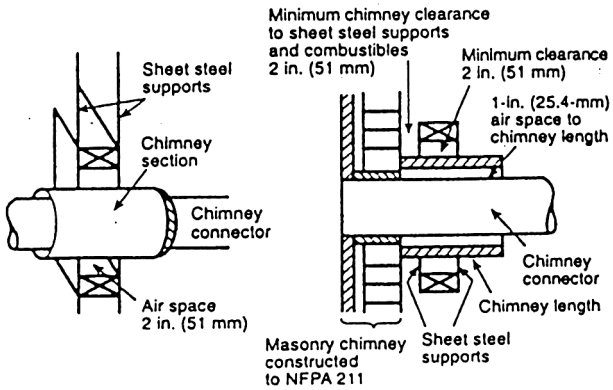
B. Insulated Sleeve

Solid-insulated, listed factory-built chimney length of the same inside diameter as the chimney connector and having 1″/25.4cm or more of insulation with a minimum 9″/229mm air space between the outer wall of the chimney length and combustibles.


Minimum chimney clearance to sheet steel supports and combustibles 2 in. (51 mm)
Two air channels each 1 in. (25.4 mm)
Chimney connector
Chimney flue
Minimum 6 in. (152 mm) glass fiber insulation
Two ventilated air channels each 1 in. (25.4 mm). Construction of sheet steel.
Masonry chimney constructed to NFPA 211
Sheet steel supports

C. Ventilated Thimble

Sheet steel chimney connector, minimum 24 gauge in thickness, with a ventilated thimble, minimum 24 gauge in thickness, having two 1″/25.4mm air channels, separated from combustibles by a minimum of 6″/152mm of glass fiber insulation. Opening shall be covered, and thimble supported with a sheet steel support, minimum 24 gauge in thickness.


Minimum chimney clearance to sheet steel supports and combustibles 2 in. (51 mm)
Minimum clearance 2 in. (51 mm)
Sheet steel supports
1-in. (25.4-mm) air space to chimney length
Chimney section
Chimney connector
Chimney connector
Chimney length
Air space 2 in. (51 mm)
Masonry chimney constructed to NFPA 211
Sheet steel supports

D. Chimney Section Pass-through

Solid insulated, listed factory-built chimney length with an inside diameter 2″/51mm larger than the chimney connector and having 1″/25.4mm or more of insulation, serving as a pass-through for a single wall sheet steel chimney connector of minimum 24 gauge thickness, with a minimum 2″/51mm air space between the outer wall of chimney section and combustibles. Minimum length of chimney section shall be 12″/305mm chimney section spaced 1″/25.4mm away from connector using sheet steel support plates on both ends of chimney section. Opening shall be covered, and chimney section supported on both sides with sheet steel support securely fastened to wall surfaces of minimum 24 gauge thickness. Fasteners used to secure chimney section shall not penetrate chimney flue liner.

CHIMNEY & STOVE MAINTENANCE LOG

DATE OF SERVICE	PERFORMED BY	DESCRIPTION

This Vogelzang heating appliance is safe when installed properly and will provide you with years of service. However, always exercise good judgement when you are using this stove. You are dealing with FIRE! Fire is inherently dangerous and must be treated with respect. Stay warm and in good health!

Respectfully yours,

Steve Vogelzang

Proprietor

DO <u>NOT</u> USE THIS STOVE IN A MOBILE HOME, MANUFACTURED HOME, TRAILER OR TENT — *<u>NO EXCEPTIONS!</u>*

COMPANY TESTIMONY:

"FOR GOD SO LOVED THE WORLD THAT HE GAVE HIS ONLY BEGOTTEN SON, THAT WHOEVER BELIEVES IN HIM SHALL NOT PERISH BUT HAVE ETERNAL LIFE"

JOHN 3:16

MADE IN CHINA

VOGELZANG

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